

PATENT ABSTRACTS OF JAPAN

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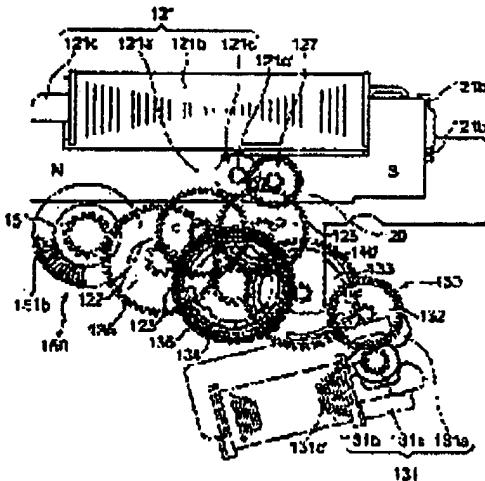
(21)Application number : 2001-303121 (71)Applicant : RHYTHM WATCH CO LTD
(22)Date of filing : 28.09.2001 (72)Inventor : KABE HIROSHI
TANABE TORU

(54) AUTOMATICALLY CORRECTABLE TIMEPIECE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an automatically correctable timepiece capable of positively and accurately detecting a reference position even when the moving amount per one step of a high speed gear used in reference position detection of a hand is small.

SOLUTION: The automatically correctable timepiece is assembled by precedently determining the winding direction of a driving coil 121b and the directions of magnetic poles of a rotor 121c. A detection command signal is outputted from a control circuit 14 to a detecting means so that a position of the hand is detected by providing a predetermined relationship with timing of a pulse signal inputted from the control circuit 14 to a winding leading terminal 121b' and a winding trailing terminal 121b" of the driving coil 121b for driving the rotor 121c.



LEGAL STATUS

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NOVELTY - A memory stores information regarding winding direction of a drive coil (121b) of a stepper motor (121), and direction of magnetic pole of a rotor (121c). A control circuit outputs detection command signal for detection of hand position and a time pulse signal is determined based on position of two end terminals of the drive coil so as to maintain predetermined relation between output timing of the two signals.

ADVANTAGE - Detects position of hand reliably and accurately, and performs position correction efficiently with high resolution.

Fam : JP 3,696,537; JP 2003,107,174
Lit opp : JP 49-118463; JP 51-062070; JP 2000-162336

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Automatic correction clock outputs detection command signal and time pulse signal whose output timings are in predetermined relation

